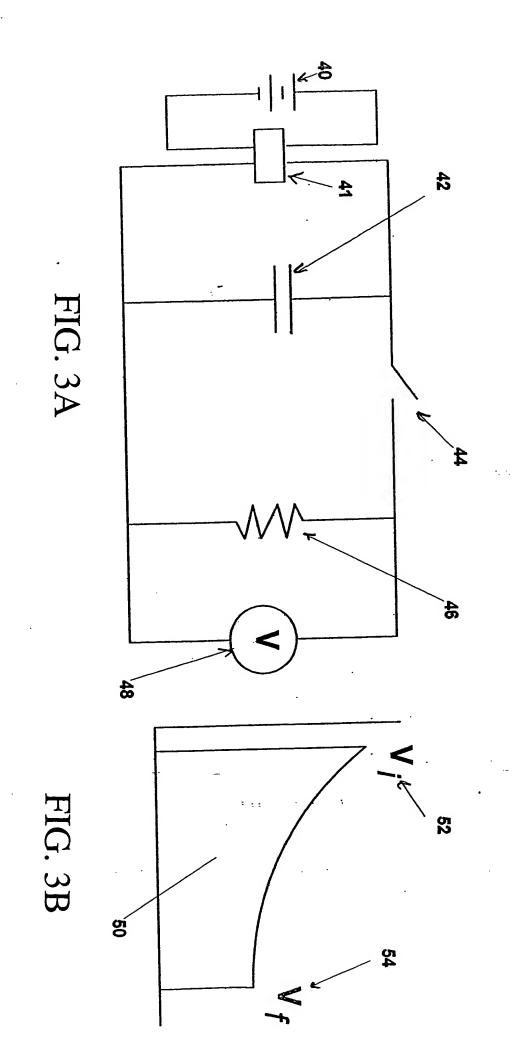
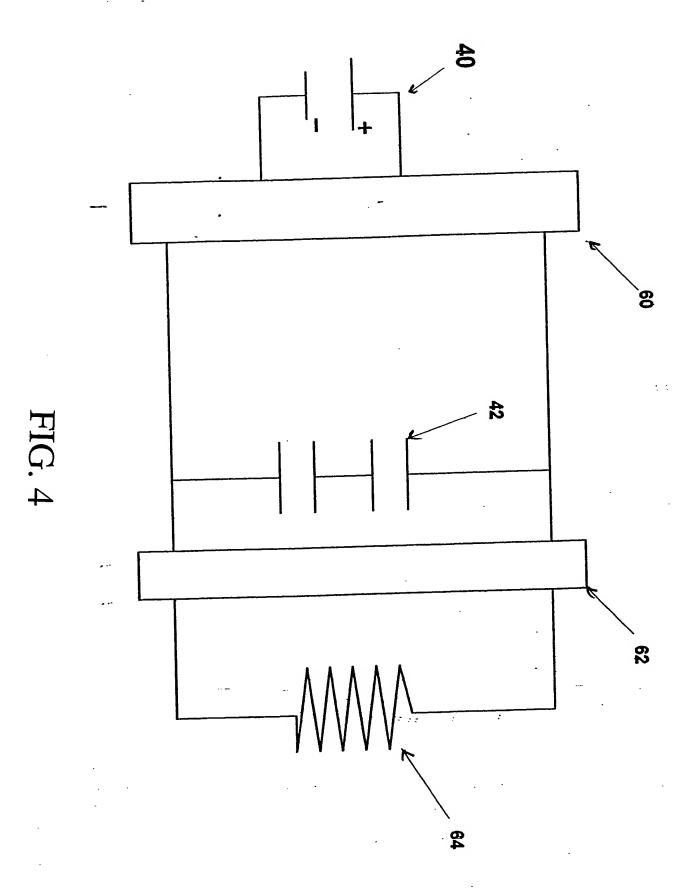
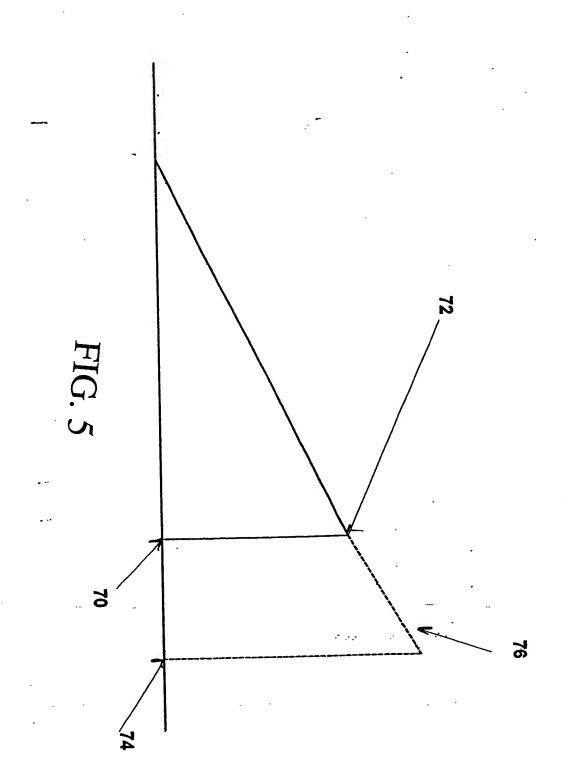


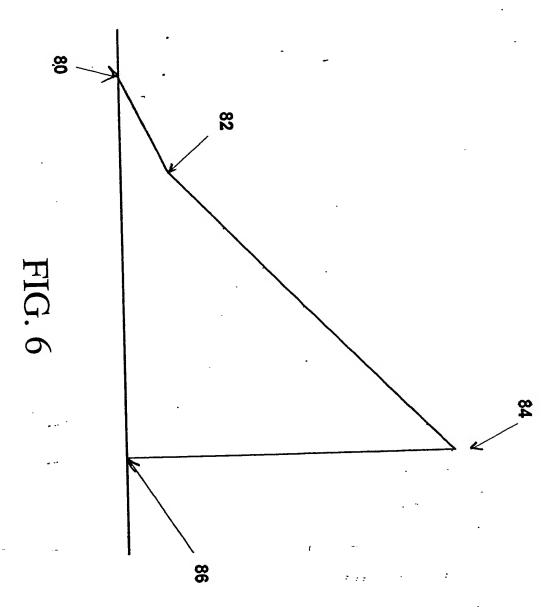
FIG. 2

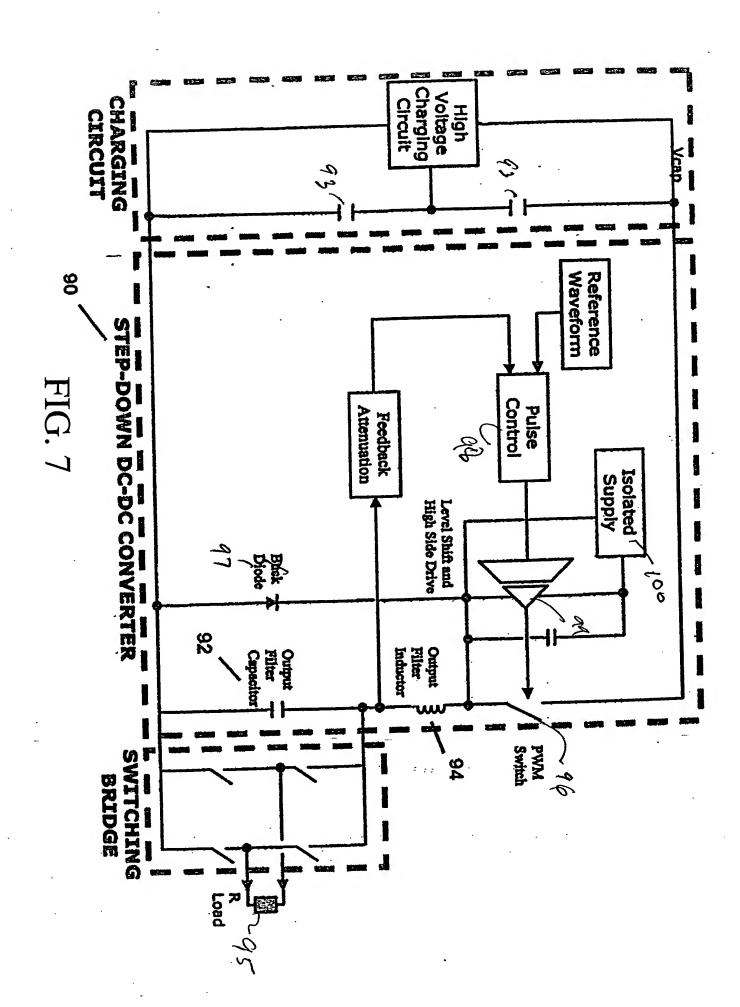
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Example 1 (Single Toroid, Magnetics Core Selector Chart Method L = 14 EH)

 $Ll^2 = 12$ from selector chart choose 58350-58350-A2 perm. 125μ A_L = 105 l = 5.88

 $N = 1000*(0.014/105)^{0.5} = 11.5$

So inductance falls to 0.33*14μH = 4.6 μH manual table: ~33% perm. At lp) H = (0.4*PI*11.5*40)/5.88 = 99 (design at 40 Amps

Volume = 5.2 cc (diameter = 24.6 mm, length = 10.9 mm)

Example 2 (Single Toroid, L = 14 μH)

Example 3 (2 stacked toroids, L = 14

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58043-A2 perm. 14μ $A_L = 7 l = 2.38$ cm

 $N = 1000*(0.014/7)^{0.5} = 44.7$

H = (0.4*P|*44.7*40)/2.38 = 944 (design So inductance falls to $0.71*14\mu = 9.9 \mu H$ at manual table: ~71% perm at lp 40 Amps

Volume = 0.59 cc diameter = 11.2 mm, length = 5.96 mm)

58273-A2 perm. 14μ A_L = 12 l = 1.363

 $N = 1000*[0.014//2*12)]^{0.6} = 24$

So inductance falls to $0.72*14 \mu H = 10.0 \mu H$ manual table: ~72% perm. at lp) H = (0.4*PI*24*30)/1.363 = 884 (design at 40 Amps

Volume = 0.53 cc (diameter = 7.6 mm, length = 11.7 mm)

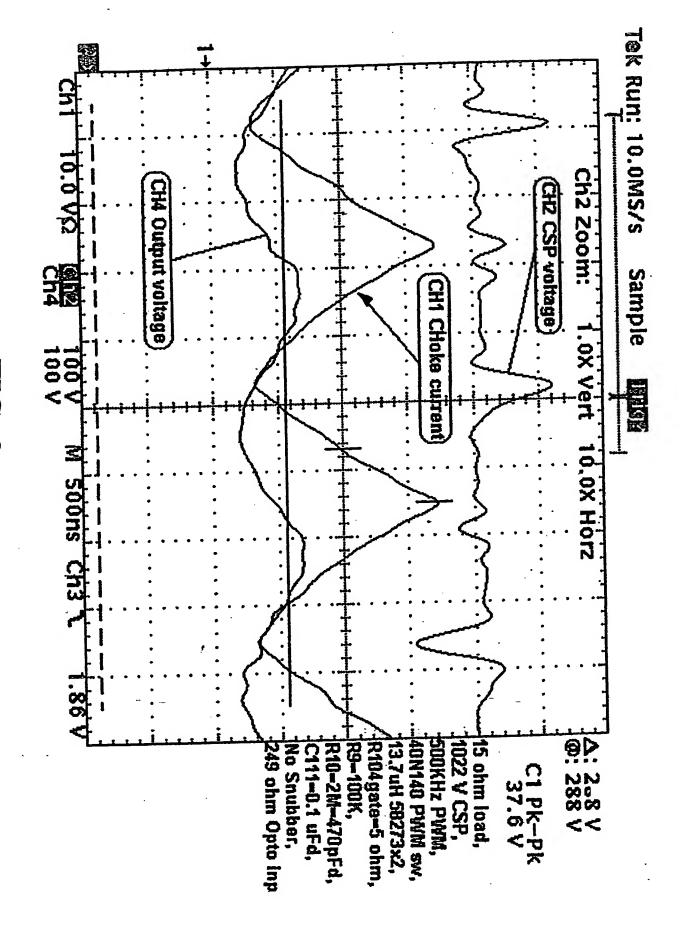
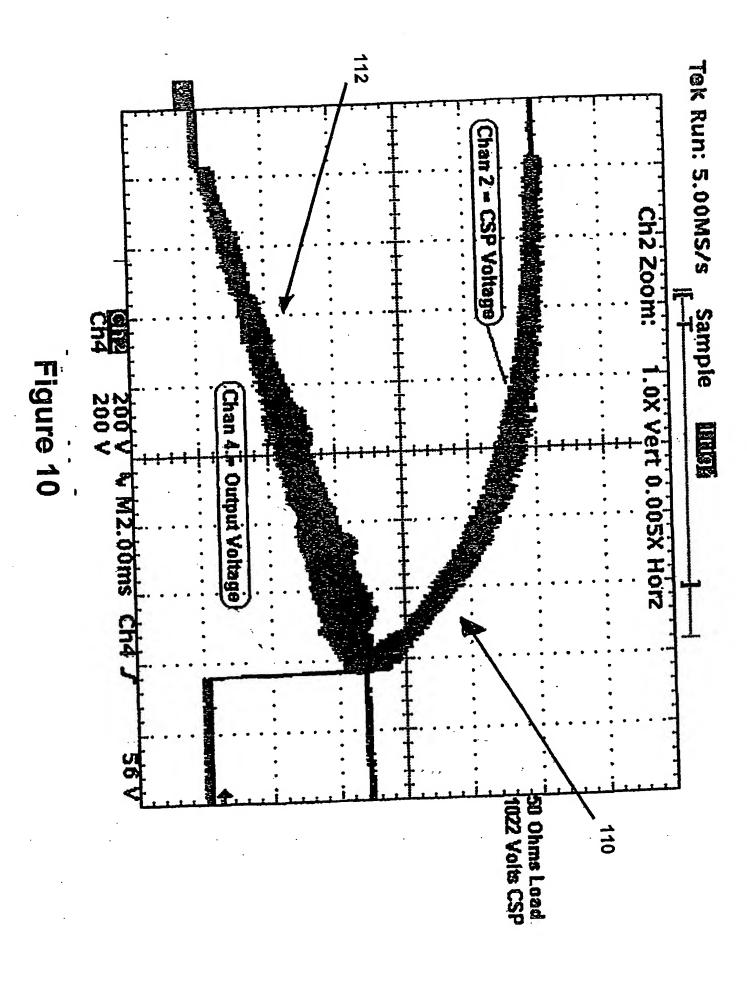


FIG. 9



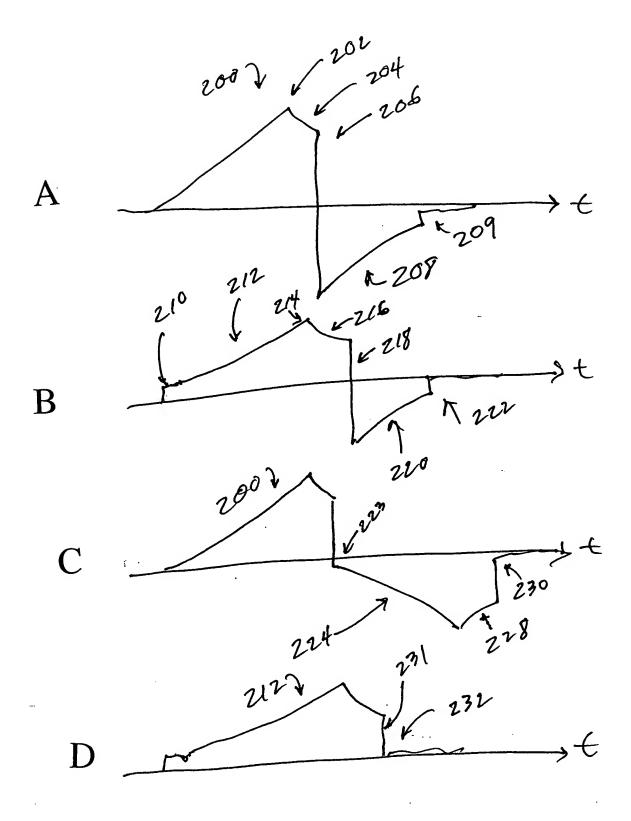


FIG. 11